

WHAT IS CLAIMED IS:

1. A wireless information home appliance system comprising at least one information home appliance, said at least one information home appliance each having a wireless I/O (input/output) circuit, and a center controller connected to a network, said center controller comprising a wireless I/O (input/output) circuit, wherein when started, said center controller automatically receives and detects output signal of the wireless I/O circuit of each of said at least one information home appliance, and then registers the connection of said at least one information home appliance to said network and regularly inquires the condition of said at least one information home appliance; when received a packet message from said network, said center controller immediately sends the packet message to the wireless I/O circuit thereof to the wireless I/O circuit of each of said at least one information home appliance by broadcast; upon receipt of a packet message signal from said center controller, the wireless I/O circuit of each of said at least one information home appliance demodulates the packet message signal, and judges if the signal matches or not, and the proceeds with the required control processing subject to the control instruction of the packet message signal if the signal matches.

2. The wireless information home appliance system of claim 1 wherein said center controller, when started, proceeds with the steps of: (a) automatically receiving and detecting output signal of the wireless I/O circuit of each of said at least one information home appliance, (b) judging if the signal received came from a new information home appliance or not, (c) registering the PIN (personal identification number) code of the information home appliance in a memory thereof for further recognition use and then returning to step (a) if the information home appliance under detection is newly installed.

3. The wireless information home appliance system of claim 2 wherein if the information home appliance under detection is not a new one, said center controller keeps inquiring the current condition of every registered information home appliance, and then judging if said at least one information home appliance have reaction or not subject to

their response signal, and then recording the PIN code of the information home appliance having no reaction so as not to make any further inquiry. If the inquired information home appliance has no reaction, and then returns to step (a).

5 4. The wireless information home appliance system of claim 1 wherein said at least one information home appliance each further comprises a control circuit adapted to control every component part of the respective information home appliance, and an interface connected to the respective wireless I/O circuit for receiving and transmitting
10 signal through the respective wireless I/O circuit.

15 5. The wireless information home appliance system of claim 4 wherein the wireless I/O circuit of each of said at least one information home appliance comprises a wireless transmitter-receiver module and a CPU (central processing unit) connected to the wireless transmitter-receiver module of the respective wireless I/O circuit and the interface of the respective information home appliance respectively and adapted to receive signal from the control circuit of the respective information home appliance and transmit received signal to the wireless transmitter-receiver module of the respective wireless I/O circuit for
20 transmission to said center controller, and to transmit control signal received by the wireless transmitter-receiver module of the respective wireless I/O circuit through the respective interface to the control circuit of the respective information home appliance to drive the control circuit to control the component parts of the respective information
25 home appliance.

 6. The wireless information home appliance system of claim 1 wherein said center controller further comprises a network interface connected to said network for receiving packet message signal from a remote side at said network and transmitting signal to electronic
30 apparatus means at a remote side of said network.

 7. The wireless information home appliance system of claim 6 wherein the wireless I/O circuit of said center controller comprises a wireless transmitter-receiver module, and a CPU (central processing unit) adapted to receive packet message signal from a remote side of

said network through the network interface of said center controller and transmit received packet message signal to said at least one information home appliance through the wireless transmitter-receiver module of said center controller, and to transmit signal from the wireless-transmitter-receiver module of said center controller to electronic apparatus means at a remote side of said network through the network interface of said center controller.

8. The wireless information home appliance system of claim 5 wherein when the CPU of the wireless I/O circuit of one of said at least one information home appliance recognizes received signal not for controlling the respective information home appliance, the CPU of the wireless I/O circuit of the respective information home appliance gives up the packet message.

9. The wireless information home appliance system of claim 5 wherein the wireless transmitter-receiver module of the wireless I/O circuit of each of said at least one information home appliance is an infrared transmitter-receiver module.

10. The wireless information home appliance system of claim 7 wherein the wireless transmitter-receiver module of the wireless I/O circuit of said center controller is an infrared transmitter-receiver module.

11. The wireless information home appliance system of claim 5 wherein the wireless transmitter-receiver module of the wireless I/O circuit of each of said at least one information home appliance is a transmitter-receiver module constructed subject to bluetooth communication protocol.

12. The wireless information home appliance system of claim 7 wherein the wireless transmitter-receiver module of the wireless I/O circuit of said center controller is a transmitter-receiver module constructed subject to bluetooth communication protocol.